SIEMENS

Electric Automation
Automation specialists

Reference: 3RW4075-6BB44

SIRIUS SOFT STARTER, S12, 356 A, 200 KW/400 V, 40 DEG., 200-460 V AC, 230 V AC, SCREW TERMINALS

Buy it at Electric Automation Network

General technical data:		
product brand name		SIRIUS
Product equipment Integrated bypass contact system		Yes
Product feature Thyristors		Yes
Product function		
Intrinsic device protection		Yes
motor overload protection		Yes
Evaluation of thermistor motor protection		No
External reset		Yes
Adjustable current limitation		Yes
Inside-delta circuit		No
Product component Motor brake output		No
Equipment marking acc. to DIN EN 61346-2		Q
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		G
Power Electronics:		
Product designation		soft starters for standard applications
Operating current		
at 40 °C rated value	A	356
at 50 °C rated value	A	315
at 60 °C rated value	A	280

Mechanical power output for three-phase motors		
at 230 V		
— at standard circuit at 40 °C rated value	W	110 000
at 400 V		
— at standard circuit at 40 °C rated value	W	200 000
Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	100
Operating frequency rated value	Hz	50 ... 60
Relative negative tolerance of the operating frequency	%	-10
Relative positive tolerance of the operating frequency	%	10
Operating voltage at standard circuit rated value	V	200 ... 460
Relative negative tolerance of the operating voltage at standard circuit	%	-15
Relative positive tolerance of the operating voltage at standard circuit	%	10
Minimum load [% of IM]	%	20
Adjustable motor current for motor overload protection minimum rated value	A	131
Continuous operating current [% of Ie] at 40 °C	%	115
Power loss [W] at operating current at 40 °C during operation typical	W	125
Control electronics:		
Type of voltage of the control supply voltage		AC
Control supply voltage frequency 1 rated value	Hz	50
Control supply voltage frequency 2 rated value	Hz	60
Relative negative tolerance of the control supply voltage frequency	%	-10
Relative positive tolerance of the control supply voltage frequency	%	10
Control supply voltage 1 at AC		
at 50 Hz rated value	V	230
at 60 Hz rated value	V	230
Relative negative tolerance of the control supply voltage at AC at 60 Hz	%	-15
Relative positive tolerance of the control supply voltage at AC at 60 Hz	%	10
Display version for fault signal		red
Mechanical data:		
Size of engine control device		S12
Witd>	mm	160
Height	mm	230

Depth	mm	278
Mounting type		screw fixing
Mounting position		With atd>
Required spacing with side-by-side mounting		
upwards	mm	100
at the side	mm	5
downwards	mm	75
Installation altitude at height above sea level	m	5 000
Wire length maximum	m	300
Number of poles for main current circuit		3
Connections/ Terminals:		
Type of electrical connection		
for main current circuit		busbar connection
for auxiliary and control current circuit		screw-type terminals
Number of NC contacts for auxiliary contacts		0
Number of NO contacts for auxiliary contacts		2
Number of CO contacts for auxiliary contacts		1
Type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point		
finely stranded with core end processing		70 ... 240 mm²
finely stranded without core end processing		70 ... 240 mm²
stranded		95 ... 300 mm²
Type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		
finely stranded with core end processing		120 ... 185 mm²
finely stranded without core end processing		120 ... 185 mm²
stranded		120 ... 240 mm²
Type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		
finely stranded with core end processing		min. 2x 50 mm², max. 2x 185 mm²
finely stranded without core end processing		min. 2x 50 mm², max. 2x 185 mm²
stranded		max. 2x 70 mm², max. 2x 240 mm²
Type of connectable conductor cross-sections at AWG conductors for main contacts for box terminal		
using the back clamping point		250 ... 500 kcmil
using the front clamping point		3/0 ... 600 kcmil
using both clamping points		min. 2x 2/0, max. 2x 500 kcmil
Type of connectable conductor cross-sections for DIN cable lug for main contacts		
finely stranded		50 ... 240 mm²

stranded		70 ... 240 mm²
Type of connectable conductor cross-sections for auxiliary contacts		
solid		2x (0.5 ... 2.5 mm²)
finely stranded with core end processing		2x (0.5 ... 1.5 mm²)
Type of connectable conductor cross-sections at AWG conductors		
for main contacts		2/0 ... 500 kcmil
for auxiliary contacts		2x (20 ... 14)
for auxiliary contacts finely stranded with core end processing		2x (20 ... 16)
Ambient conditions:		
Ambient temperature		
during operation	°C	-25 ... +60
during storage	°C	-40 ... +80
Derating temperature	°C	40
Protection class IP		IP00
Certificates/ approvals:		

General Product Approval		EMC	For use in hazardous locations
Declaration of Conformity	Test Certificates	Shipping Approval	other
	spezielle Prüfbescheinigungen		Umweltbestätigung
other			
Bestätigungen			

UL/CSA ratings:		
Yielded mechanical performance [hp] for three-phase AC motor		
at 220/230 V		
— at standard circuit at 50 °C rated value	hp	125
at 460/480 V		
— at standard circuit at 50 °C rated value	hp	250
Contact rating of auxiliary contacts according to UL		B300 / R300